

**GE Silicones**-----
COPYRIGHT GENERAL ELECTRIC CO.
-----FORMAT: USA
PRODUCT: GE32000MATERIAL SAFETY DATA SHEET
SPACE INVADER POLY INSUL FOAM
-----1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION
-----MANUFACTURED BY:
GE SEALANTS & ADHESIVES
260 HUDSON RIVER ROAD
WATERFORD, NY 12188SUPPLIED BY:
GE SEALANTS & ADHESIVES
260 HUDSON RIVER ROAD
WATERFORD, NY 12188EMERGENCY PHONE (24 HRS)
518-237-3330EMERGENCY PHONE (24 HRS)
518-237-3330REVISED: 04/03/02
PREPARER: KE LINTZ
CHEMICAL FAMILY/USE: POLYURETHANE ADHESIVES
FORMULA: MIXTURE
-----2. COMPOSITION/INFORMATION ON INGREDIENTS

PRODUCT COMPOSITION/ CAS REG NO.	APPROX. WGT. %	ACGIH TLV TWA	OSHA PEL STEL	TWA	STEL	UNITS
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1. HAZARDOUS

4,4'-DIPHENYLMETHANE DIISOCYANATE						
101-68-8	10-30	.051 C	NE	.2 C	NE	MG/M3
ISOCYANIC ACID, POLYMETHYLENEPOLY- PHENYLENE ESTER (MDI)						
9016-87-9	10-30	NF	NE	NF	NE	NA
POLYMERIC COLORANT BLEND						
VENDOR	>1.00	NE	NE	NE	NE	
LIQUIFIED PETROLEUM GAS						
VENDOR	10-30	1000	NE	1000	NE	PPM

2. NON-HAZARDOUS

POLYOL MIXTURE						
MIXTURE	30-60	NE	NE	NE	NE	

See Section 15 for description of any WHMIS Trade Secret(s).

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

Contents under pressure,
Irritating to skin, eyes, and respiratory tract.
Harmful if swallowed, inhaled, or absorbed through skin.
May cause central nervous system depression.
Viscous foam; solid upon curing.
Danger! Extremely Flammable
May cause allergic skin reaction.
Hydrocarbon odor
Blue solid

POTENTIAL HEALTH EFFECTS:

INGESTION:

DO NOT INGEST! Ingestion of uncured product can be harmful or fatal. Can cause severe irritation and corrosion of mouth, throat, and gastrointestinal tract. Symptoms include nausea, stomach pain, diarrhea, abdominal cramps and spasms, bloody watery stools, and vomiting of hard whitish fragments of polymerized isocyanate. Product may cure in gastrointestinal tract and obstruct the passage of food and air. Other effects include slowed or irregular heartbeat, metabolic acidosis, blood disturbances, central nervous system effects, coma, and death.

SKIN CONTACT:

This product contains ingredients which may produce an allergic skin reaction. It should be treated as a skin sensitizer. Will bond skin surfaces together.
Contact may cause severe irritation with redness, pain, and rash.

INHALATION:

Harmful if inhaled.
Inhalation of vapors or gas can cause respiratory tract irritation, breathlessness, wheezing, coughing, decreased pulmonary function, headache, nausea, vomiting, chest pain, and irregular heartbeat. Central nervous system depression can occur with disorientation, drunkenness, suffocation, convulsions, coma, and death. Respiratory and cardiac sensitizer. Overexposure may cause chemical pneumonitis, inflammation of the lungs, and pulmonary edema which may be fatal. Symptoms may be delayed for several hours.

EYE CONTACT:

Will bond eyelids together.
Contact with product, vapors, or propellant gas can be irritating and damaging to the eye.

MEDICAL CONDITIONS AGGRAVATED:

Respiratory disorders.
Central nervous system disorders.
Applies in uncured state.
Cardiovascular disorders.
Skin disorders.
Allergies.

SUBCHRONIC (TARGET ORGAN) EFFECTS:

Central nervous system
Immune system
Skin

Respiratory tract

Eyes

CHRONIC EFFECTS/CARCINOGENICITY:

This product or one of its ingredients present 0.1% or more is NOT listed as a carcinogen or suspected carcinogen by NTP, IARC, or OSHA.

PRODUCTS/INGREDIENTS

This space reserved for special use.

PRINCIPLE ROUTES OF EXPOSURE:

Dermal - skin.

Inhalation.

OTHER:

None known.

4. FIRST AID MEASURES

INGESTION:

GET MEDICAL ATTENTION OR CALL POISON CONTROL IMMEDIATELY!

Inform medical personnel that victim has swallowed isocyanates.

Do not induce vomiting. Do not give anything to drink. Keep

victim warm and at rest until help arrives. If vomiting

occurs, keep head lower than hips to prevent aspiration. If

unconscious, turn head to side. If not breathing, begin

artificial respiration using a barrier device.

SKIN:

Product adheres to skin. Remove contaminated clothing. Wash

immediately with abrasive soap. Acetone or alcohol may be

helpful. If product cannot be removed, or allergic reaction

with reddening and blistering develops, get immediate medical

attention.

INHALATION:

Remove victim from source of exposure.

Get medical attention.

If not breathing, begin artificial respiration using a barrier

device. Because of chemical properties, do not use

mouth-to-mouth contact.

EYES:

Flush eyes with large amounts of water for at least 15 minutes.

Get immediate medical attention.

NOTE TO PHYSICIAN:

Treatment is symptomatic and supportive.

5. FIRE FIGHTING MEASURES

100 FLASH POINT: -104 (C) -155.2 (F)
METHOD : ND
IGNITION TEMP : NA (C) NA (F)
FLAMMABLE LIMITS IN AIR - LOWER (%): NA

FLAMMABLE LIMITS IN AIR - UPPER (%): NA
SENSITIVITY TO MECHANICAL IMPACT (Y/N): NO
SENSITIVITY TO STATIC DISCHARGE:
Sensitivity to static discharge is expected.
EXTINGUISHING MEDIA:

Carbon dioxide

Dry chemical

Water

Foam

Halogenated agents

SPECIAL FIREFIGHTING PROCEDURES:

Extremely flammable.

Cool exposed containers with water spray after extinguishing fire.

Polymerization may take place during a fire due to elevated temperature where closed containers could violently rupture.

Toxic hydrogen cyanide can be liberated under burning conditions

Containers can build up pressure if exposed to heat (fire).

Treat as a pressurized container.

Firefighters must wear NIOSH/MSHA approved positive pressure self-contained breathing apparatus with full face mask and full protective clothing.

6. ACCIDENTAL RELEASE MEASURES

ACTION TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Wear appropriate protective equipment. Cover with absorbent material and place in open top container for later disposal. After curing, material can only be removed mechanically.

7. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Avoid breathing vapors.

Avoid contact with skin and eyes.

Use only in a well ventilated area.

Curing releases vapors which may be harmful.

Remove contact lenses before using sealant. Do not handle lenses until all sealant has been cleaned from the fingertips, nails and cuticles. Residual sealant may remain on fingers for several days and transfer to lenses and cause severe eye irritation.

Good hygienic practices should be observed. Work clothes should be washed separately at the end of each work day. Disposable clothing should be discarded with material.

Keep away from children.

Store between 40 F and 120 F. Do not store where temperatures may exceed 120 F. If temperature is less than 40 F, contents

may separate. Shake can to mix.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:

Eyewash stations.

See "Ventilation" below.

RESPIRATORY PROTECTION:

If exposure limits are exceeded or respiratory irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Supplied air respirators may be required for non-routine or emergency situations. Respiratory protection must be provided in accordance with OSHA regulations (see 29 CFR 1910.134).

PROTECTIVE GLOVES:

Impermeable or chemical resistant gloves.

EYE AND FACE PROTECTION:

Safety glasses with side shields.

OTHER PROTECTIVE EQUIPMENT:

Wear clean, body-covering clothing.

VENTILATION:

Ventilation and other forms of engineering controls are preferred for controlling exposures. Respiratory protection may be needed for non-routine or emergency situations.

9. PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT INFORMATION:

BOILING POINT	:	93.333	(C)	200	(F)
VAPOR PRESSURE(20 C) (MM HG)	:	50			
VAPOR DENSITY (AIR=1)	:	NA			
FREEZING POINT	:	NA	(C)	NA	(F)
MELTING POINT	:	NA	(C)	NA	(F)
PHYSICAL STATE	:	SOLID			
ODOR	:	HYDROCARBON			
COLOR	:	BLUE-GREEN			
ODOR THRESHOLD (PPM)	:	NA			
% VOLATILE BY VOLUME	:	NA			
1□ EVAP. RATE(BUTYL ACETATE=1):	:	NA			
SPECIFIC GRAVITY (WATER=1)	:	1.1			
DENSITY (KG/M3)	:	NA			
ACID/ALKALINITY (MEQ/G)	:	NA			
PH	:	NA			
VOC EXCL.H2O & EXEMPTS(G/L)	:	ND			
SOLUBILITY IN WATER (20 C)	:	INSOL			
SOLUBILITY IN ORGANIC SOLVENT (STATE SOLVENT):	:			NF	

10. STABILITY AND REACTIVITY

STABILITY: STABLE
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR
HAZARDOUS THERMAL DECOMPOSITION/COMBUSTION PRODUCTS:
Carbon monoxide.
Carbon dioxide.
Oxides of nitrogen.
Hydrogen cyanide.
INCOMPATIBILITY (MATERIALS TO AVOID):
Do not expose to amines.
Alcohols.
Finely powdered metals.
Bases.
CONDITIONS TO AVOID:
Keep away from heat, sparks and flame.
Avoid any source of ignition.
Freezing conditions

11. TOXICOLOGICAL INFORMATION

PRODUCT INFORMATION:
ACUTE ORAL LD50 (MG/KG): UNKNOWN
ACUTE DERMAL LD50 (MG/KG): UNKNOWN
ACUTE INHALATION LC50 (MG/L): UNKNOWN
OTHER:
None.

AMES TEST: UNKNOWN

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: No data at this time
11 CHEMICAL FATE INFORMATION: No data at this time

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD:

Disposal should be made in accordance with federal, state and local regulations.

-----14. TRANSPORT INFORMATION

DOT SHIPPING NAME: CONSUMER COMMODITY
DOT HAZARD CLASS: ORM-D
DOT LABEL(S): NONE
UN/NA NUMBER: NA
PLACARDS: NONE
IATA:
CONSUMER COMMODITY, 9, ID8000
IMO IMDG-code: PRODUCT NOT PROPERLY LABELED FOR OCEAN SHIPMENT
EMS No: NA
EUROPEAN CLASS:
RID (OCTI): 2.2
ADR (ECE): 2.2
RAR (IATA): 2.2

-----15. REGULATORY INFORMATION

SARA SECTION 302:

None Found

SARA (311,312) HAZARD CLASS:

ACUTE HEALTH HAZARD

CHRONIC HEALTH HAZARD

FIRE HAZARD

SARA (313) CHEMICALS:

THIS PRODUCT CONTAINS TOXIC CHEMICAL(S) LISTED BELOW WHICH IS(ARE) SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372.

Diphenylmethane Diisocyanate

101-68-8

ISOCYANIC ACID, POLYMETHYLENE-POLYPHENYLENE ESTER

9016-87-9

CPSC CLASSIFICATION: NA

WHMIS HAZARD CLASS:

A COMPRESSED GAS

B2 FLAMMABLE LIQUIDS

D2A VERY TOXIC MATERIALS

D2B TOXIC MATERIALS

WHMIS TRADE SECRET:

None

EXPORT:

SCHDLE B/HTSUS: 3909.50 polyurethanes

ECCN: -

HAZARD RATING SYSTEMS

HMIS FLAMMABILITY 4 , REACTIVITY 1 , HEALTH 2

NFPA FLAMMABILITY 4 , REACTIVITY 1 , HEALTH 2

CALIFORNIA PROPOSITION 65:

NONE

16. OTHER INFORMATION

These data are offered in good faith as typical values and not as product specifications. No warranty, either expressed or implied, is made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.

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C = ceiling limit NEGL = negligible
EST= estimated NF = none found
NA = not applicable UNKN = unknown
NE = none established REC = recommended
ND = none determined V = recomb. By vendor
By-product = reaction by- SKN = skin
product, TSCA inventory TS = trade secret
status not required under R = recommended
40 CFR part 720.30(h-2) MST = mist
STEL = short term exposure NT = not tested
limit
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This product contains a chemical which is not listed on the Canadian Domestic Substances List (DSL). It is provided to you for Research and Development or Product Development purposes only. Any use of a chemical not listed on the DSL for a commercial purpose in quantities greater than 20 kilograms is contrary to Canadian Law. Under the provisions of the Environmental Protection Act, chemicals which are not listed on the DSL may be manufactured in or imported into Canada in quantities of 1,000 kilograms or less annually, or 5,000 kilograms cummulatively, for Research and Development or Product Development purposes.

All chemical substances in this material are included on or exempted from listing on the TSCA inventory.

DATE PRINTED: 04/04/02